machine numbers | B13A01L | B13A02D | B13A03D | B19A02D | B19A21D

zenith

hookup directory page 6

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As an ENERGY STAR® Partner, Zenith Electronics Corporation of America has determined that this product or product model meets the ENERGY STAR® guidelines for energy efficiency.

operating guide / warranty

RECORD YOUR MODEL NUMBER
(Now, while you can see it)

The model and serial number of your new TV are located on the back of the TV cabinet. For your future convenience, we suggest that your record these numbers here:

MODEL NO._____

SERIAL NO._____

WARNING:

TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

POWER CORD POLARIZATION:

CAUTION: To Prevent Electric Shock, Match wide blade of plug to wide slot, fully insert.

ATTENTION: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu’au fond.

NOTE TO CABLE/TV INSTALLER:

This reminder is provided to call the cable TV system installer’s attention to Article 820-40 of the National Electric Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical.

REGULATORY INFORMATION:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION:

Do not attempt to modify this product in any way without written authorization from Zenith Electronics Corporation. Unauthorized modification could void the user’s authority to operate this product.

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IMPORTANT SAFETY INSTRUCTIONS

Important safeguards for you and your new product

Your product has been manufactured and tested with your safety in mind. However, improper use can result in potential electrical shock or fire hazards. To avoid defeating the safeguards that have been built into your new product, please read and observe the following safety points when installing and using your new product, and save them for future reference.

Observing the simple precautions discussed in this operating guide can help you get many years of enjoyment and safe operation that are built into your new product.

This product complies with all applicable U.S. Federal safety requirements, and those of the Canadian Standards Association.

1. Read Instructions

All the safety and operating instructions should be read before the product is operated.

2. Follow Instructions

All operating and use instructions should be followed.

3. Retain Instructions

The safety and operating instructions should be retained for future reference.

4. Heed Warnings

All warnings on the product and in the operating instructions should be adhered to.

5. Cleaning

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

6. Water and Moisture

Do not use this product near water for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.

7. Accessories

Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

8. Transporting Product

A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

PORTABLE CART WARNING

9. Attachments

Do not use attachments not recommended by the product manufacturer as they may cause hazards.

10. Ventilation

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

11. Power Sources

This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

12. Line-Cord Polarization

This product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

13. Power-Cord Protection

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

(Continued on next page)

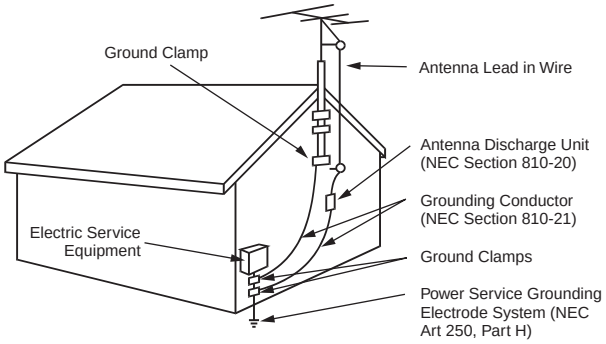
IMPORTANT SAFETY INSTRUCTIONS

(Continued from previous page)

14. Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code (U.S.A.), ANSI/ NFPA 70 provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Example of Grounding According to National Electrical Code Instructions


Ground Clamp
Antenna Lead in Wire
Antenna Discharge Unit (NEC Section 810-20)
Grounding Conductor (NEC Section 810-21)
Electric Service Equipment
Ground Clamps
Power Service Grounding Electrode System (NEC Art 250, Part H)

NEC - National Electrical Code

15. Lightning

For added protection for this product (receiver) during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

16. Power Lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

17. Overloading

Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

18. Object and Liquid Entry

Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

19. Servicing

Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

20. Damage Requiring Service

Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

a. If the power-supply cord or plug is damaged.

b. If liquid has been spilled, or objects have fallen into the product.

c. If the product has been exposed to rain or water.

d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.

e. If the product has been dropped or the cabinet has been damaged.

f. If the product exhibits a distinct change in performance.

21. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

22. Safety Check

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

23. Wall or Ceiling Mounting

The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

24. Heat

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

Table Of Contents

Note: This operating guide describes features for a family of TV models, as a result, not all features are available on all models!

See the feature by model chart below to identify which features are on your TV.

Turn to the next page to begin your TV setup.

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Features Available by TV Model Chart

Note: Even though this operating guide shows a complete listing of features available for this model line, all models do not have all the features shown. For example, Model B13A01L does not have a remote control, or On/Off Timer features. See note above.

	B13A01L	B13A02D	B13A03D	B19A02D	B19A21D
Remote Control	No	Yes	Yes	Yes	Yes
Dipole Antenna	No	Yes	Yes	No	No
Earphone Jack	Yes	No	Yes/Front	No	No
Sound	Monaural	Monaural	Monaural	Monaural	Stereo
Audio/Video In Jacks	No	No	Yes/Front	No	No
On/Off Timers	No	Yes	Yes	Yes	Yes
Sleep Timer	No	Yes	Yes	Yes	Yes
Parental Control	No	Yes	Yes	Yes	Yes
Closed Captions When Mute	No	Yes	Yes	Yes	Yes

Yes=feature is available on that model.
No=feature is not available on that model.

All Models include: Antenna Hookup Jack; Front TV Controls Panel; English, Spanish, French On-Screen Menus; and Custom/Preset Picture Preference.

Note: Design and specifications are subject to change without prior notice.

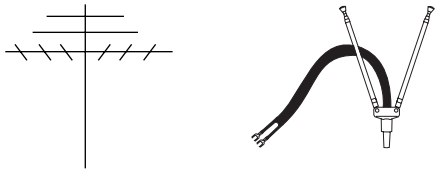
Hook-Up Directory

Directs you to which page to go to for proper hook up of your Entertainment Machine™

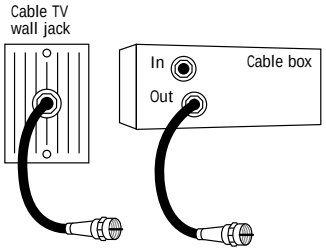
IMPORTANT!!

Use this page to decide where you need to begin your setup. First, find the line below that best describes what you want to do, then go to that page number.

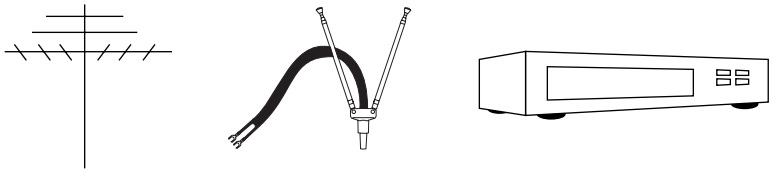
Antenna only If you are using an antenna and no other equipment, go to . . . . . page 7



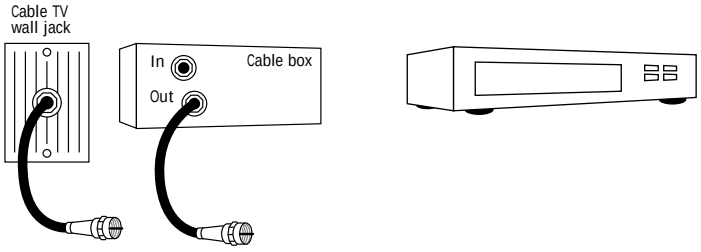
Cable Service If you subscribe to cable service and no other equipment, go to . . . . . page 8



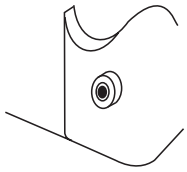
Antenna with VCR If you are using an antenna and have a VCR, go to . . . . . page 9



Cable and VCR If you subscribe to cable service and have a VCR, go to . . . . . page 10



Accessory Input If you have earphones and want to use the earphone jack, go to . . . . . .page 15

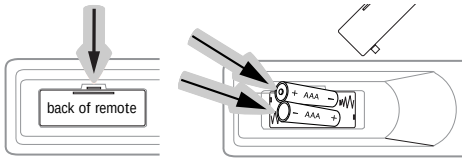


Hook Up Your Antenna

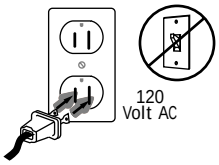
Connecting an antenna to your Entertainment Machine™

1 Hook up your Entertainment Machine™, see diagrams at right.

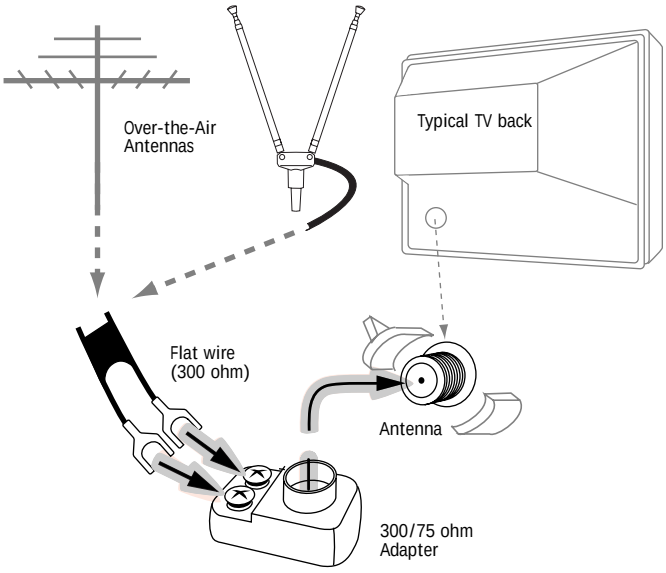
2 Remove the back of the remote and put in two AAA batteries.



3 Plug in your TV. Do not plug it into a switched outlet.

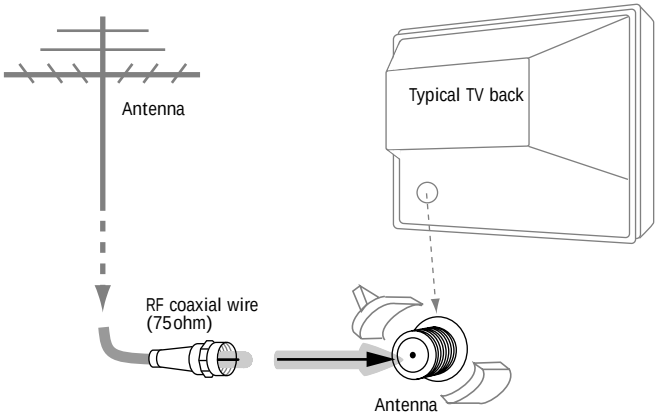


4 Go to page 11 to Auto Program your Entertainment Machine™.



If you have a 75 ohm RF cable, then you don't need any adapters!

Remember, when screwing RF cables onto jacks, clockwise tightens, and counterclockwise loosens.



Mini glossary

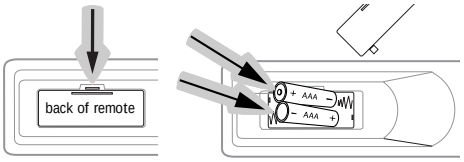
75 OHM RF Cable	The wire that comes from an off-air antenna or cable service provider. Each end looks like a hex shaped nut with a wire sticking through the middle, and it screws onto the threaded jack on the back of your TV.
300-75 OHM Adapter	A small device that connects a two-wire 300 ohm antenna to a 75 ohm RF jack. They are usually about an inch long with two screws on one end and a round opening with a wire sticking out on the other end.

Hook Up Cable Service to the TV

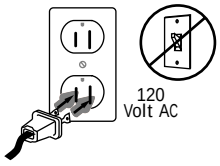
Connecting Cable service to your Entertainment Machine™

1 Hook up your Entertainment Machine™, see diagrams at right.

2 Remove the back of the remote and put in two AAA batteries.



3 Plug in your TV. Do not plug it into a switched outlet.



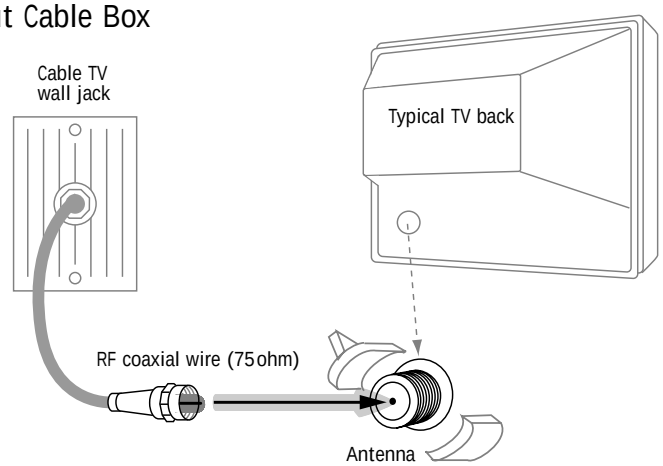
4 Go to page 11 to Auto Program your Entertainment Machine™.

If you're using a cable box, leave your TV on channel 3 or 4 and use your cable box to change channels.

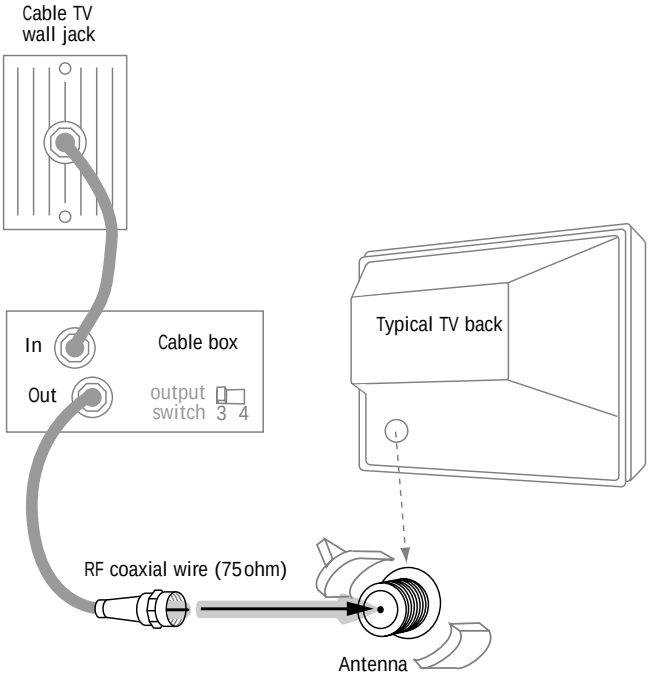
Remember, when screwing RF cables onto jacks, clockwise tightens, and counterclockwise loosens.

If you're using a cable box, Auto Program (page 11) might only find the channel your cable service is on (usually channel 3 or 4). Don't worry, that's all you need!

Without Cable Box



With Cable Box



Mini glossary

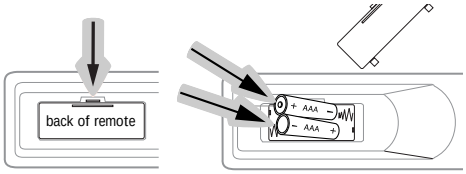
CABLE SERVICE The wire that supplies all your cable TV (CATV) stations.

Hook Up Antenna and VCR to the TV

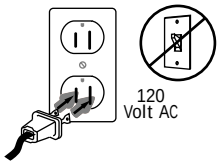
Connecting your off-air antenna and VCR to your Entertainment Machine™

1 Hook up your Entertainment Machine™, see diagrams at right.

2 Remove the back of the remote and put in two AAA batteries.



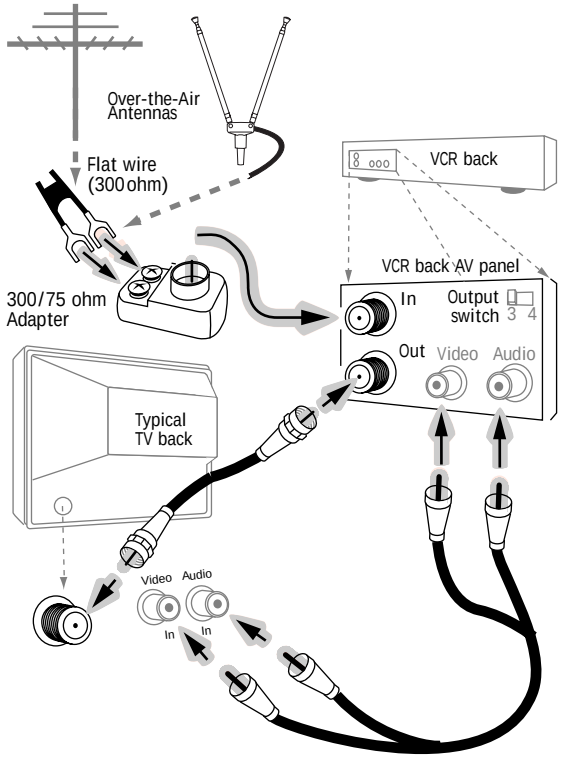
3 Plug in your TV. Do not plug it into a switched outlet.



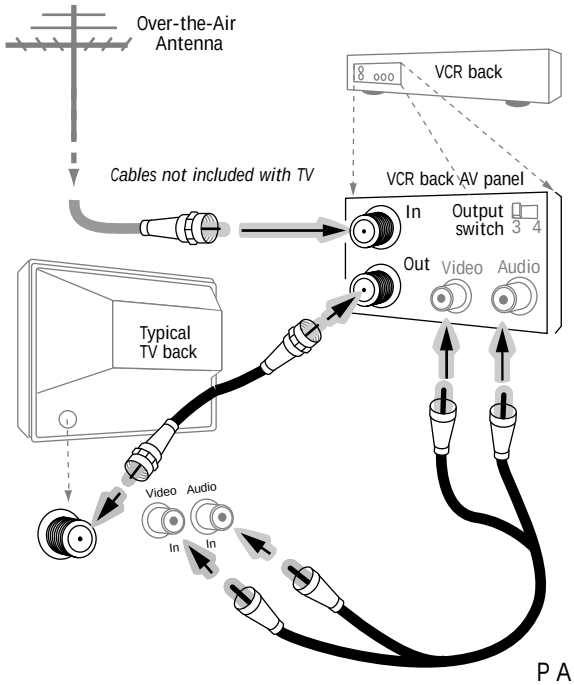
4 Go to page 11 to Auto Program your Entertainment Machine™.

Remember, when screwing RF cables onto jacks, clockwise tightens, and counterclockwise loosens.

(VCR with Flat Wire Antenna Adapter)



(VCR with Round Antenna Wire)

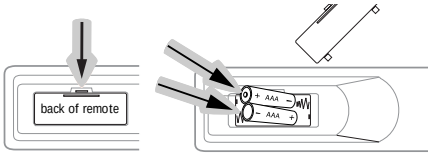


Hook Up Cable and VCR to the TV

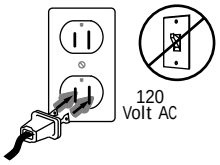
Connecting Cable service and a VCR to your Entertainment Machine™

1 Hook up your Entertainment Machine™, see diagrams at right.

2 Remove the back of the remote and put in two AAA batteries.



3 Plug in your TV. Do not plug it into a switched outlet.



4 Go to page 11 to Auto Program your Entertainment Machine™.

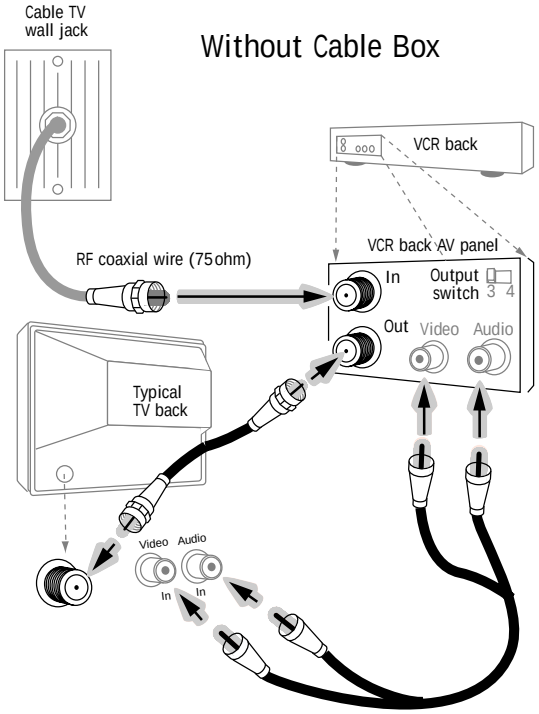
Leave your VCR and your television tuned to channel three and use the cable box to change channels.

Remember, when screwing in RF wires onto jacks, clockwise tightens, and counterclockwise loosens.

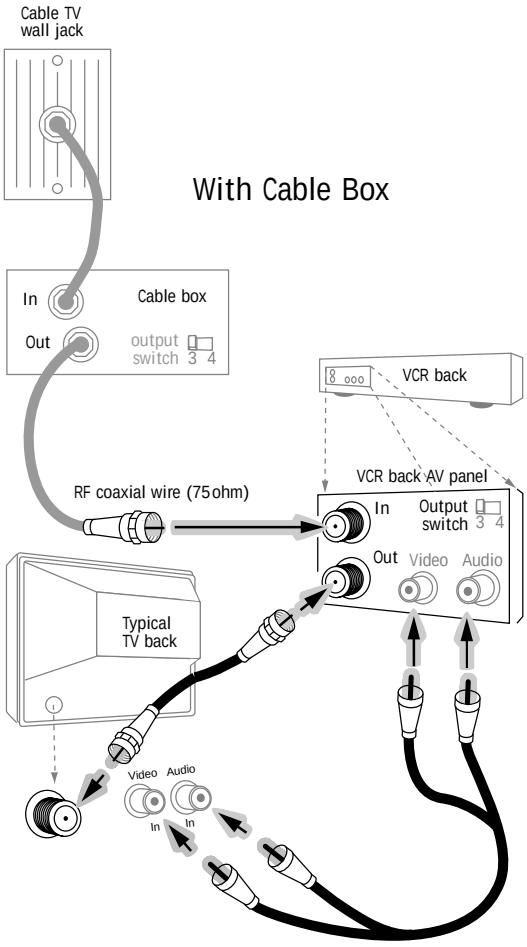
No A/V cables are included with your Zenith Entertainment Machine™.

If you're using a cable box, Auto Program (page 11) might only find the channel your cable service is on (usually channel 3 or 4). Don't worry, that's all you need!

Without Cable Box

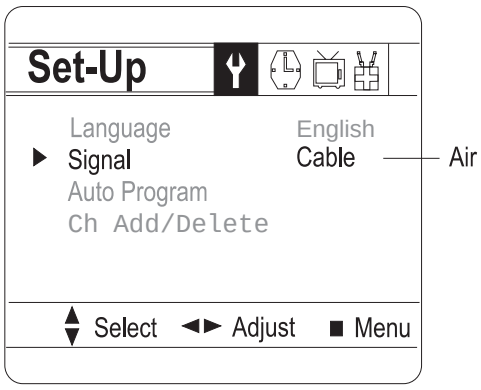


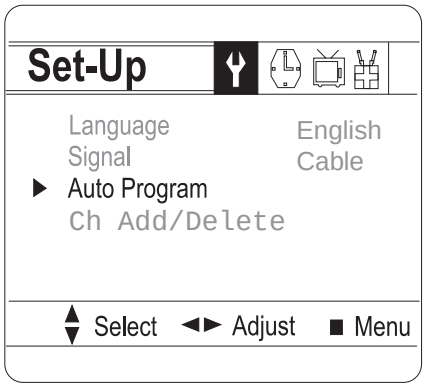
With Cable Box



Signal/Auto Program

Signal sets the TV up to receive either over-the-air antenna signals (Air) or the cable signal from your cable service provider (Cable). Use Auto Program to automatically find and store in the TV's memory, all the stations available in your area.





1 With the remote control in hand, press POWER to turn on your Entertainment Machine™.

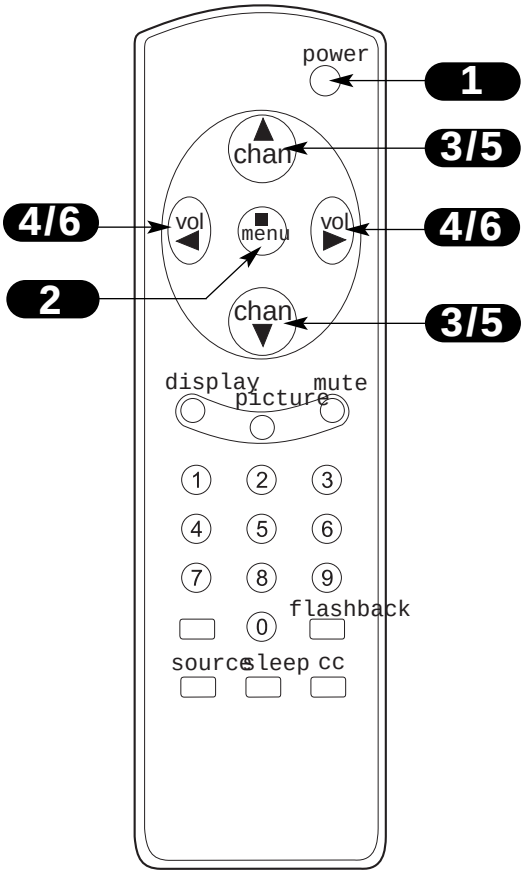
2 Press MENU so the Setup menu appears.

3 Use the UP or DOWN arrow to select Signal.

4 With Signal highlighted, use the RIGHT or LEFT arrow on the remote control to select either:
Air - for over-the-air antenna reception.
Cable - for reception from your cable service provider.

5 Use the UP or DOWN arrow to select Auto Program.

6 Press a RIGHT or LEFT arrow to begin Auto Program, follow on-screen instructions. When the channel search is complete, you are ready to watch TV.



Auto Program finds channels being received by the TV tuner. See information on page 15 for using the Cable Box or VCR tuners.

Cable will not work unless you subscribe to cable service.

Mini glossary

OFF-AIR-ANTENNA	The device receiving the program signal broadcast over the air.
CABLE	Your Auto Program selection, if you subscribe to a cable service.

Remote Control Key Functions

A quick list of all the keys on your remote and what they do

Note: All the features listed below may not be available on your TV, see page 5 for a complete listing of the features available by model number on each TV in this family.

CH (CHANNEL UP)
Goes to next higher channel number.

VOLUME (LEFT)
Decreases the sound level.

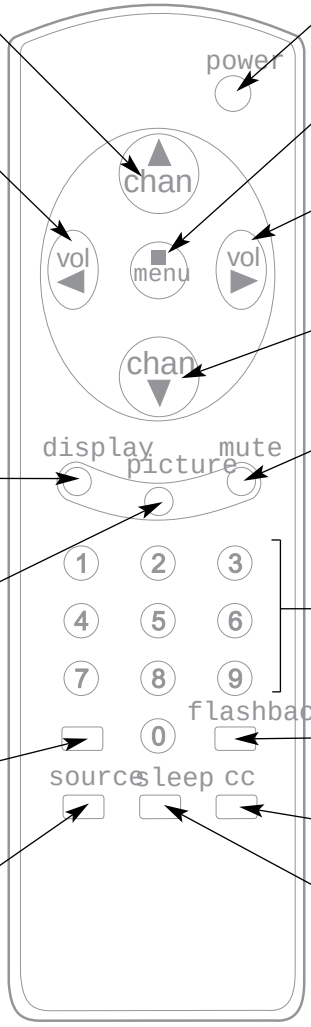
UP/DOWN-LEFT/RIGHT ARROWS
The Up/Down arrows *select* menu options and the Left/Right arrows *adjust* menu options.

DISPLAY
Shows the channel/time display.

PICTURE
Selects video menu options. LEFT, and RIGHT arrows adjust settings.

NOT USED

SOURCE
Switches between currently selected TV channel, Channel 3, and Channel 4 on some TVs.
On model B13A03D only, switches between watching TV, Aux (Audio/Video jack input), Channel 3, and Channel 4.



POWER
Turns TV On or Off.

MENU
Displays on-screen menus.
See page 16

VOLUME (RIGHT)
Increases the sound level.

CH (CHANNEL DOWN)
Goes to next lower channel number.

MUTE
Turns sound Off and On while the picture remains. Press once to mute sound, press again to restore sound.

NUMBER KEYPAD
Selects channels directly.

FLASHBK (FLASHBACK)
Return to the last channel viewed.

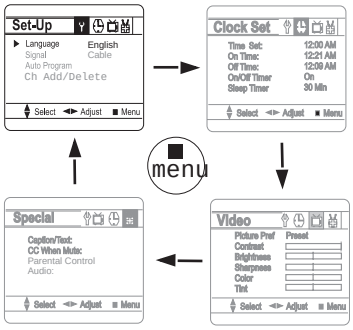
CC
Chooses closed captions and text options: C1, C2, T1, T2.

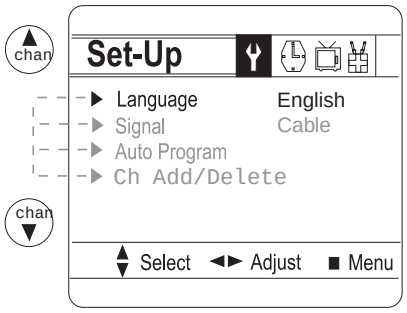
SLEEP
Sets the time the TV will turn off automatically.

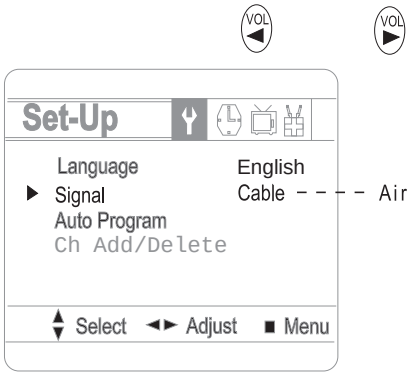
remote control model numbers
SC3482
SC3484 w/Glow Keys

Menu Operation with Remote Control

How to use the remote control to access the on-screen menus; select the menu options, and adjust the options



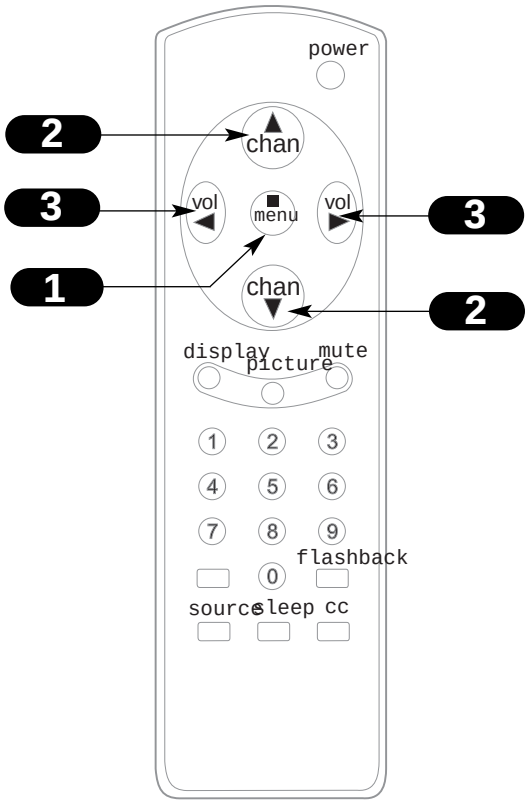




1 Press MENU repeatedly to scroll through the available menus.

2 Press either the Up or Down **chan** arrow key repeatedly to move the menu arrow up or down the available menu options and select one.

3 Use the Right or Left **vol** arrow key to adjust the selected menu option.



You can use the TV front panel controls to operate the on-screen menus also, see next page.

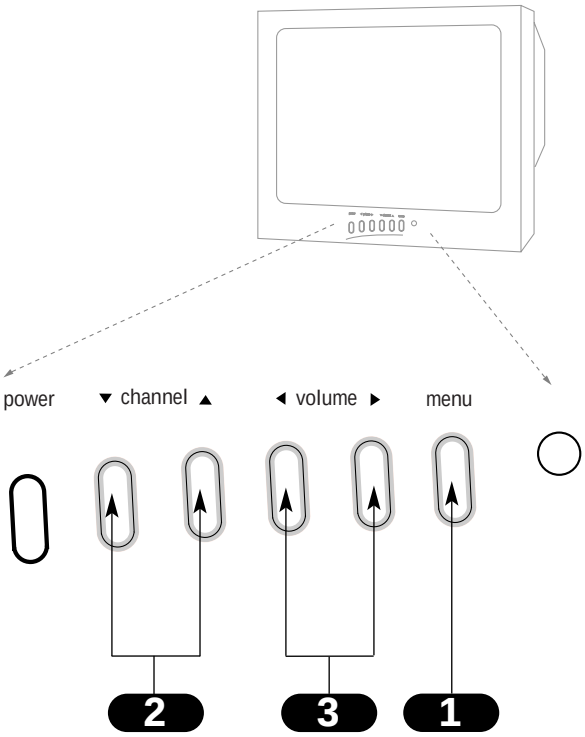
Cable will not work unless you subscribe to cable service.

Front Panel Controls

How to use your front panel controls to operate the on-screen menus

Note: When using the buttons on the front panel to select and adjust options on the on-screen menus:

CHANNEL = Select Up/Down
VOLUME = Adjust Left/Right



1 To access the Setup menu, press the MENU button once; to get the other menus, keep pressing the MENU button.

2 Choose the on-screen menu option you wish to change using either SELECT button.

3 The ADJUST buttons act as an "adjustment" (Left/Right) function - - use them to change the menu option.

Menus disappear after twenty seconds. To get them back, push the MENU button again.

If you've lost your remote, you can get a new replacement by calling 1-800-255-6790 to purchase a replacement.
Note: Remotes are not available for Model B13A01L.

Introducing you to the basics of your Entertainment Machine™

Channel/Time

20
12:35 AM

1 - Pressing DISPLAY will show the Channel/Time display; the currently selected channel, and the current time (if the clock is set).

Changing Channels

2 - CHANNEL UP/DOWN arrows: Use these arrows to change channels. Auto Program finds all channels available to you.

2 - NUMBER Keypad: To skip to any channel, enter the number of the channel using the NUMBER keypad. Press "0" first for channel numbers under 10.

2 - FLASHBACK: To instantly return to the last channel viewed, press FLASH-BACK (Previous Channel).

Audio

3 - VOLUME RIGHT/LEFT: To adjust the sound level, use the VOLUME RIGHT/LEFT arrows.

3 - To silence your TV instantly, press MUTE. To get the sound back, press MUTE again.

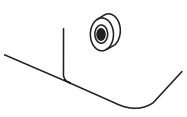
3 - Stereo Sound: If your TV has stereo sound, select your audio preference using the on-screen AUDIO menu.

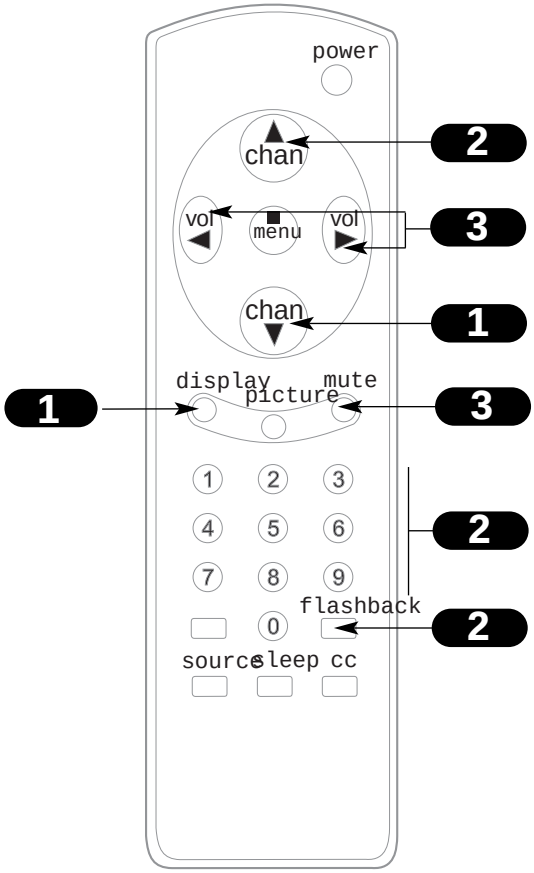
Tuners

Use the TV tuner, (or if you have other sources) the VCR tuner, or the Cable Box tuner to tune channels and provide the picture and sound to your TV. See pages 8, 9, and 10 for Happy/Sad notes regarding VCR and Cable Boxes. Set your VCR and/or Cable Box output switches to either 3 or 4, then tune the TV to channel 3 or 4 to receive the VCR or Cable Box tuner image. See your VCR and/or your Cable Box owner's manual(s) for further operating information.

Earphone Jack

An earphone jack is provide on some models. Connect your earphone(s) and follow the instructions provided with your earphone(s).



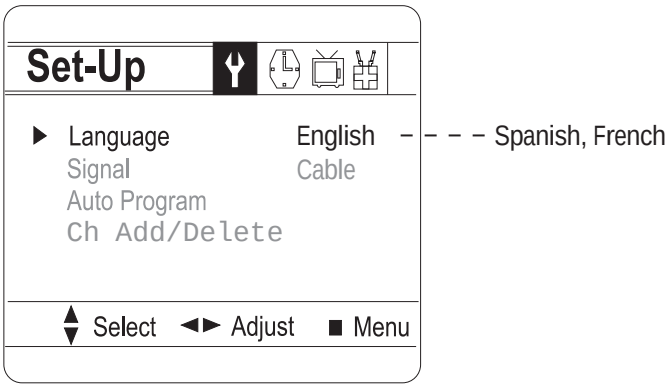


Descriptions of the menus and submenus on your Entertainment Machine™

Menu Name	Description and page number	
SETUP	*Sets up the basic features of your Entertainment Machine*	
Language	Pick the language you want your on-screen menus to appear in.	17
Signal	Choose Air, or Cable service.	11
Auto Program	Automatically finds and stores active channels to flip through using Channel Up/Down.	11
Ch. Add/Del	You manually pick and choose which active channels will appear when flipping through using Channel Up/Down.	18
CLOCK	*Sets the clock, programs the Sleep Timer, and on/off timer options*	19
Time Set	Set the TV clock's time.	
On Time	Set the time that the TV will automatically turn on.	20
Off Time	Set the time that the TV will automatically turn off.	
On/Off Timer	Pick whether the on/off timers will be working or not.	
Sleep Timer	Pick a preset time that the TV will automatically turn off, 15 minutes - two hours.	21
VIDEO	*Personalizes the picture image* Your options are: Picture Pref., Contrast, Brightness, Sharpness, Color, and Tint.	22
SPECIAL	*Goes beyond basics and customizes your Entertainment Machine™*	
Caption/Text	Choose the captioning or text options for your Entertainment Machine™. Options are: Off, Caption1, Caption 2, Text 1, or Text 2.	23
CC When Mute	Closed Captions appear on-screen when mute is selected (sound is turned off).	24
Parental Control	Restrict viewer programming based on selected ratings.	25
Audio	Selects Stereo, Monaural or SAP (Second Audio Program) on TVs with Stereo audio.	27

Language

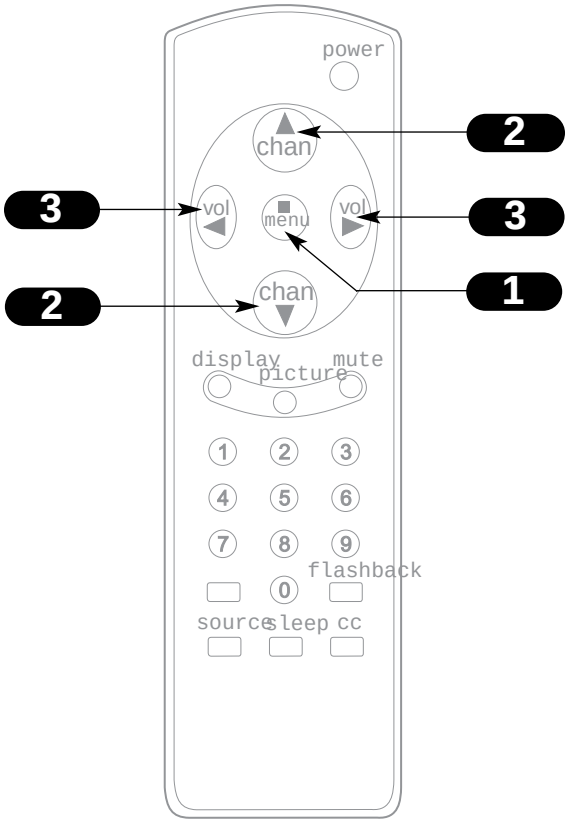
Use to choose a different language for the on-screen menus to appear in



1 Press MENU to place the Setup menu on the TV.

2 Use the Up or Down Select arrow to highlight the Language option.

3 Use the Left or Right adjust arrow to choose either: English, Spanish, or French as the language the on-screen menus will appear in.

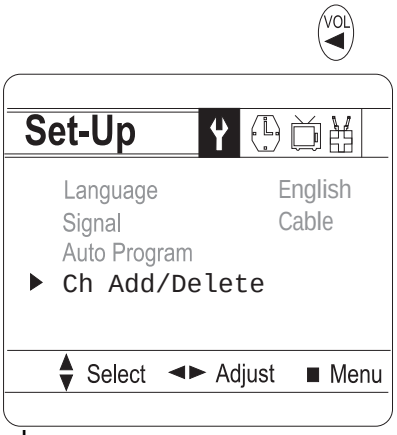


Even if the TV is turned on and off, the selected language remains for the on-screen menus.

If the TV is disconnected from power, it reverts back to the original preset condition with English on-screen menus.

Ch Add/Del

Follow the instructions below to include or remove channels from the channel scan



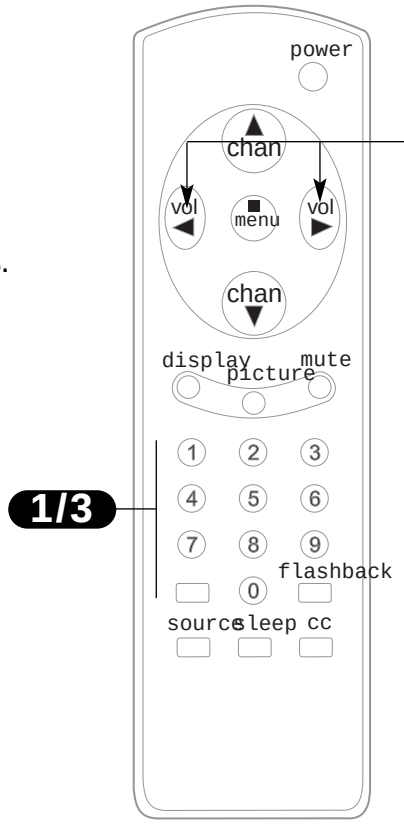
Note: Use the remote control to add or delete channels.

As shown in the Setup menu, with Ch Add/Del selected:

1 To add or delete a channel, use the number keypad to tune to the channel.

2 Use the left or right arrow to adjust, either: add the currently tuned channel or delete it.

3 To select another channel to add or delete, use the number keypad or Ch Up/Down and repeat above instructions.



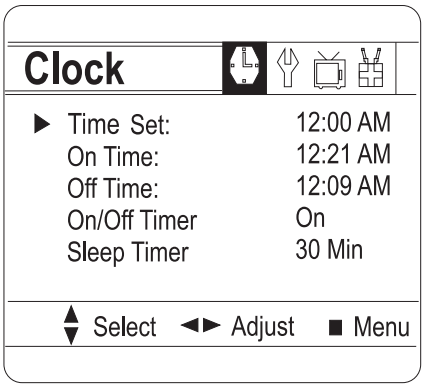
For Model No. B1301L only: Since there is no remote control for this model, you must use the ch up/down arrows to select channels. If you delete channels from the TV's memory, simply rerun Auto Program to restore all available channels.

Mini glossary

CHANNEL SCAN	The channels found and put into the TV's memory when Auto Program's Channel Search was performed. Channels that are tuned as the user presses either the Ch Up or Down keys on the remote or front control panel.
ADDED	Channel will be included when pressing Ch Up/Down.
DELETED	Channel will not be included when pressing Ch Up/Down.

Clock Set

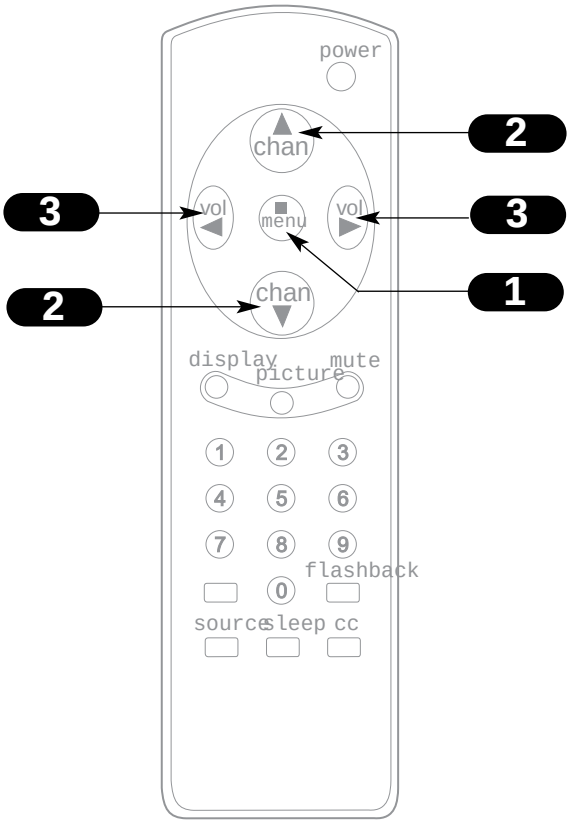
Use to set the time on the TV's clock



1 Press MENU repeatedly to place the Clock menu on the TV screen.

2 Use the Up or Down Select arrow to highlight the Time Set option.

3 Press and hold down the Left or Right Adjust arrow and set the current time, making sure AM or PM is set correctly.

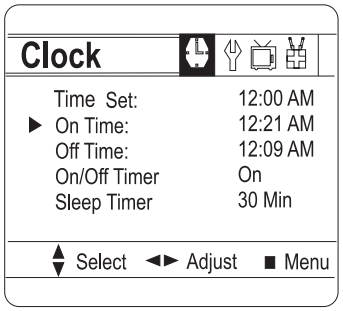


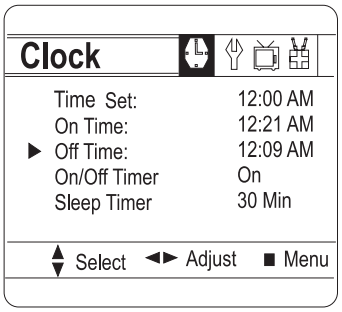
If you set the clock, the time appears automatically when you press DISPLAY.

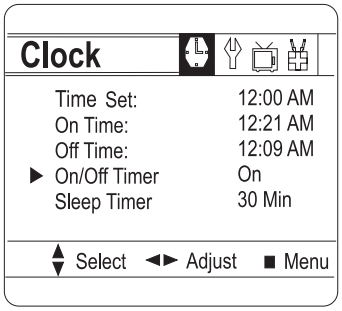
If you disconnect power to the TV you will have to reset the internal clock.

On/Off Timer

Use to set the clock: On Time/Off Time/On-Off Timer feature



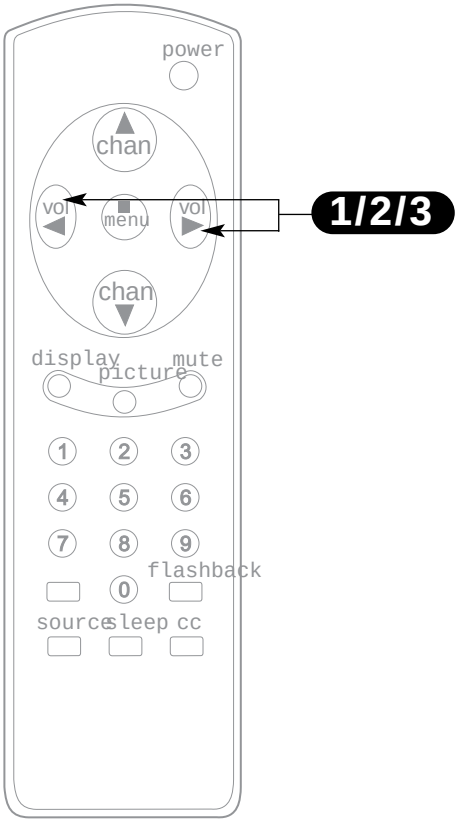




1 In the Clock menu with the On Time option highlighted, press and hold down the Left or Right arrow until the time you want the TV to turn on appears.

2 With the Off Time option highlighted, press and hold down the Left or Right arrow until the time you want the TV to turn off appears.

3 With the On/Off Timer option highlighted, use the Left or Right arrow to set:
"On" - the TV will turn On and Off.
"Off" - the TV will not turn On and Off.



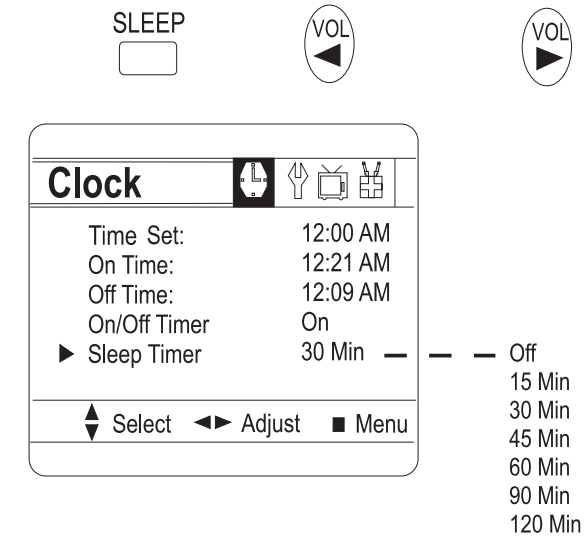
The On/Off Timer clock settings can be left the same but the feature can be set to be active or inactive.

You must set an off time for the On/Off Timer feature to work.

Mini glossary

ON TIMER	Time setting that automatically turns your TV on at the preset time.
OFF TIMER	Time setting that automatically turns your TV off at the preset time.
ON/OFF TIMER	Option that enables or disables the On/Off Timer settings.

Sleep Timer



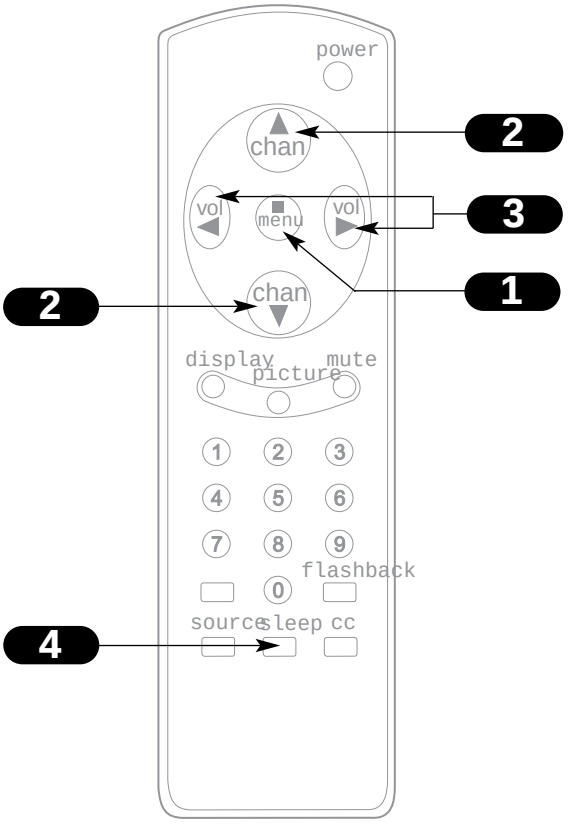
Automatically turns the TV off after the selected preset time period has elapsed

1 Press MENU repeatedly to place the Clock menu on the TV screen.

2 Use the Up or Down Select arrow to highlight the Sleep Timer option.

3 Use the Left and Right arrows to select the time that you want the TV to turn itself off in.

4 Another way to set the Sleep Timer is to press SLEEP on the remote to access the preset time options. Then press SLEEP repeatedly to choose one of the preset settings.



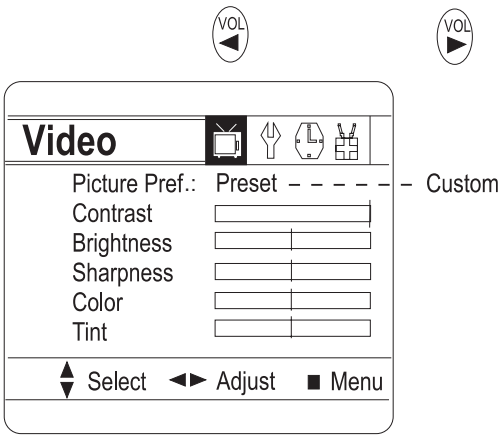
To disable the Sleep Timer, simply select Off in the Sleep Timer options menu or press POWER to turn the TV off.

Mini glossary

SLEEP TIMER	Feature which turns the TV off after the preselected time has expired. Feature can be preset to turn the TV off in a preset time period from 15 minutes up to 2 hours.

Video Menu

Use to fine-tune the picture's appearance to your personal preferences



1 Press MENU repeatedly to place the Video menu on the TV screen.

2 Use the Up or Down select arrow to highlight the menu feature.

3 Use the Left or Right adjust arrow to change the menu options:

Picture Preference - - Custom, or Preset.

Contrast - - Changes the amount of difference between black and white levels in the picture.

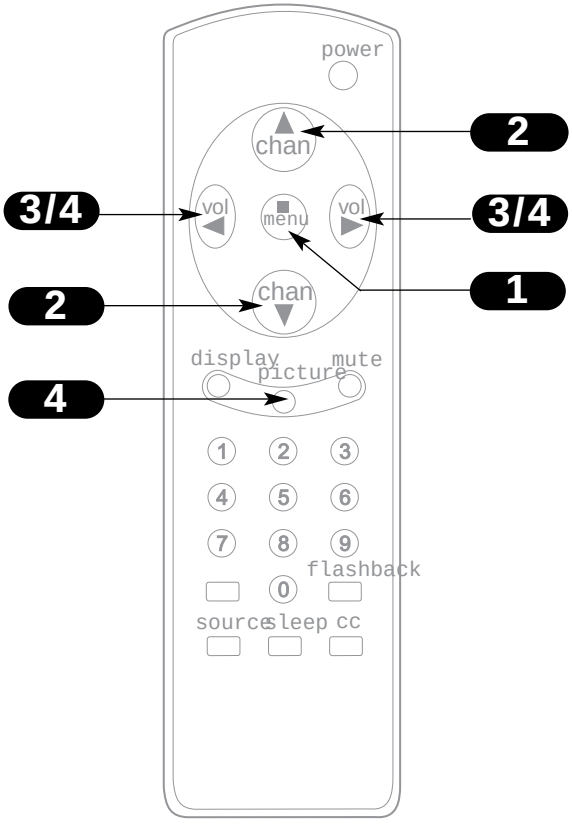
Brightness - - Increases or decreases the amount of white in your picture.

Sharpness - - Raises or lowers the definiton of the picture. The lower the level, the softer the image will appear.

Color - - Adjusts levels of all colors.

Tint - - Adjusts the relative amounts of red and green in your picture.

4 Another way to adjust the Video options is to press PICTURE repeatedly to select a video option, then use the Left or Right arrow to change the setting.

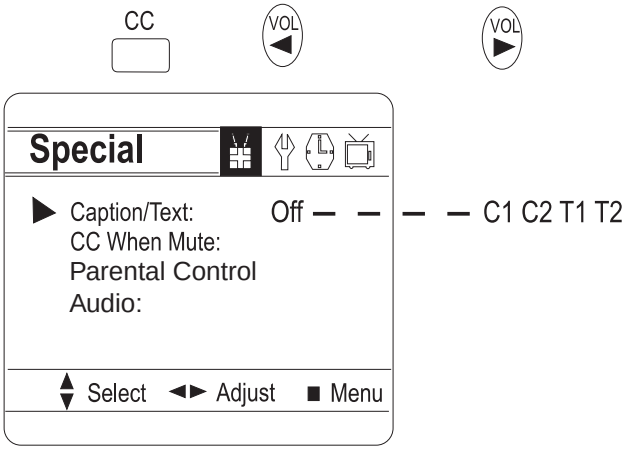


Mini glossary

CUSTOM	User specified settings for video menu options. As you make changes in the video menu, they are considered custom preferences.
PRESET	Changes all custom settings back to their original values.

Caption/Text

Use to turn on and select on-screen closed captions or text, instead of sound

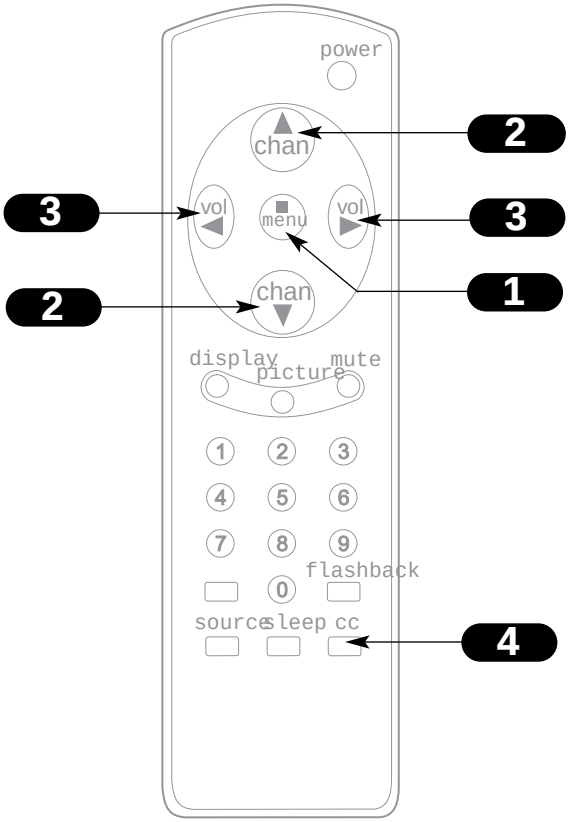


1 Press MENU repeatedly to place the Special (features) menu on the TV screen.

2 Use the Up or Down select arrow to highlight the Caption/Text option.

3 Use the Left or Right adjust arrow to choose:
Off, C1, C2, T1, T2.

4 Another method of choosing captions, or text is to press CC on the remote to access the Caption/Text menu. Press repeatedly to choose one of the options.



If a closed caption option is available on the broadcast, it will probably be Caption 1.

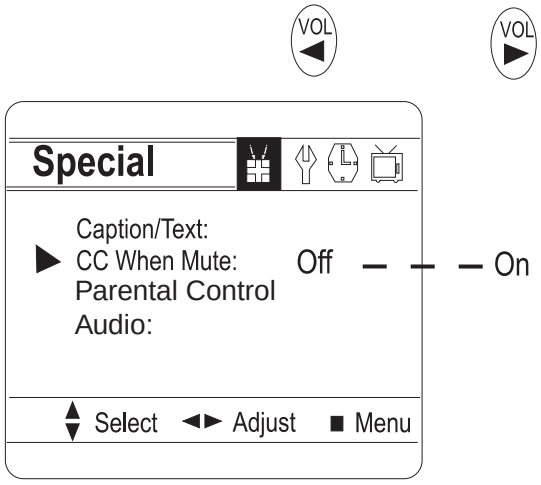
Be certain that the program you are watching has closed captions or text available. Check the local TV listings to determine if closed captions or text are available on the broadcast.

Mini glossary

C1, C2, T1, T2	C1 - Closed Captions 1, C2 - Closed Captions 2, T1 - Text 1, T2 - Text 2.
CAPTIONS	Words that appear on the TV screen as a substitute for the audio track (instead of sound), for the hearing impaired. Today, many TV programs include closed captions in addition to the audio track.
TEXT	Words that scroll across the TV screen in a box, instead of sound.

CC When Mute

Displays closed captions when the audio (sound) is muted



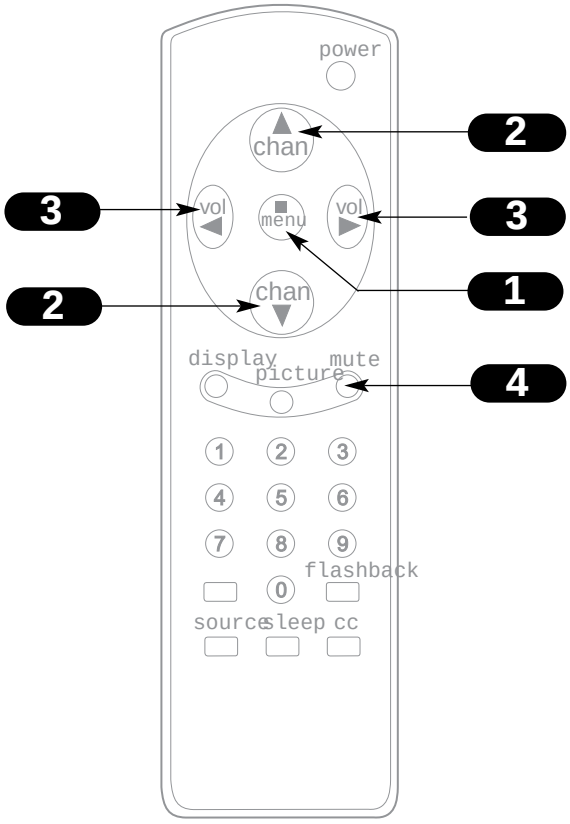
Feature works when sound is muted.

1 Press MENU repeatedly to place the Special (features) menu on the TV screen.

2 Use the Up or Down select arrow to highlight the CC When Mute option.

3 Use the Left or Right adjust arrow to choose:
Off, or On.
Off, feature not active.
On, if available, captions will appear until mute is turned off.

4 Press MUTE to activate CC When Mute.
Press MUTE again to turn feature off.



This feature works great if you get a phone call and do not want to miss the audio portion of the program you are watching.

Not all programs have closed captions.

Mini glossary

CC WHEN MUTE	This feature allows you to have closed captions appear on the TV screen whenever the mute mode (no sound) is selected.

Parental Control

Optional feature can be used to "block" undesirable programming from appearing on your TV screen

Parental Control offers the user a wide variety of options and settings in menu form that restrict or "block" the programming which can appear to the general audience and children. Parental Control allows the user the capability of defining which program rating they consider acceptable, to the younger or more sensitive viewer. It can be preset and turned either on or off by the user who specifies a secret 4-number code, the password. The number of hours must be specified and general audience and children viewer blocks should both be programmed into the TV's memory. Viewer ratings are specified for both the TV (TV Guidelines menu), and motion picture industry (Movie Ratings menu); both rating systems should be used to assure complete coverage for programs appearing on your TV. The ratings are directed at the ages of children, and mature audiences.

Overview

To insure complete coverage for all TV programs, (movies and regular TV shows) choose a rating for MPAA, from the selections below AND choose ratings from the TV Parental Guidelines Rating System on the next page for General Audiences, and for Children. In addition to those, you may wish to add additional restrictions from the Content Block menu and for the No Rating option to be blocked. See menu example on next page.

Things to Consider before Setting Up Parental Control

• Specify which rating you consider acceptable to the viewer. (For example, if you choose TV-PG, all more restrictive ratings will be automatically blocked; the viewer will not be able to see: TV-PG, TV-14, or TV-MA rated programming.)

• Block program "Content" based on individual parameters such as: Strong Dialog (D), Bad Language (L), Sex Scenes (S), Violence Scenes (V), or Fantasy Violence Scenes (FV); in the TV Guidelines option.

• How many hours do you want Parental Control to be active? Set the number of Hours option from Off, 1, up to 99.

• Select a secret password; in the Set Password option. Use the number keys on the remote. Don't forget the password, it is the only way you can access the Parental Control menu and change rating selections, or turn Parental Control off.

• Do you want Parental Control to be active all the time? If not, you can turn it on or off; with the Lock On/Off option.

Simply specifying one content block such as Sex Scenes, will not automatically block another content in the programs from appearing.

Don't forget your password or you will have to wait until the block time you specified expires, before you can access any restricted programming.

You should set Parental Control restrictions for <u>both</u> general audiences and for children classifications in the TV Guidelines menu to be active at the same time to insure complete programming coverage.

Mini glossary

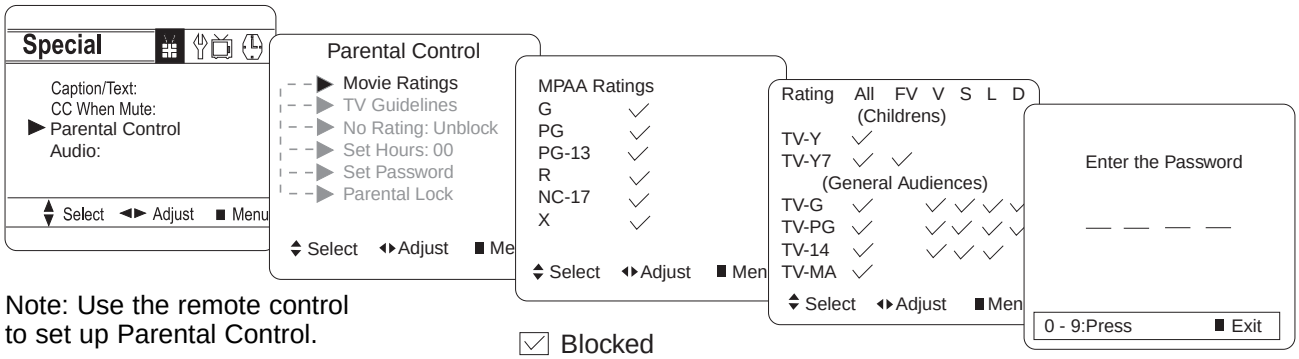
MOTION PICTURE ASSOCIATION OF AMERICA (MPAA) RATING SYSTEM

G	General Audiences	Content not offensive to most viewers.
PG	Parental Guidance Suggested	Content is such that parents may not want their children to view the program.
PG-13	Parental Guidance Suggested	Program is inappropriate for preteens, with a greater degree of offensive material than a PG rated program.
R	Restricted viewing	Not for children under age 17. Strong elements of sex and/or violence.
NC-17	Restricted Viewing	Not for children under age 17 under any circumstances. Strong sexual content.
X	Hard Core Films	Same as NC-17 rating.

Note: Zenith Electronics Corporation is not liable for any program content that appears when using this rating system; as always, user discretion is advised.

Parental Control

After reading the preceding page, follow the instructions below to set up and activate Parental Control



Note: Use the remote control to set up Parental Control.

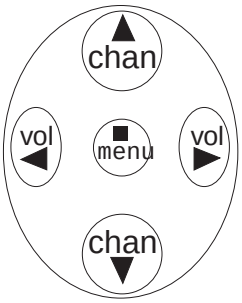
☑ Blocked
☐ Unblocked

1 As shown above in the Special menu with the Parental Control option highlighted, press the Left or Right arrow to got to Parental Control.

2 Use the Up or Down arrow to select a restriction option, like TV Guidelines.

3 Use Up/Down, to select, the restriction; use Left/Right, to set the checkmark (Block) for the options. "All," for TV-G for example. (See the Mini Glossary, Ratings Charts on this and the previous page for rating meanings.) Pressing MENU returns to the previous menu.

4 After you have selected and adjusted (Blocked/Unblocked) the options:
- Set the hours you want Parental Control active.
- Set a 4-number password using the number keypad.
- Finally, set the Parental Control Lock option to either on or off.



Use these keys to select and adjust the Parental Control menu options. Use the number keypad to set the password.

In the TV Guidelines menu, press the Up or Down arrow and repeat to go from the All column to the FV, V, L, and D columns. (Down arrow will move the highlight from top to bottom, then to the next column on the right, top to bottom, then to the next column on the right, top to bottom etc.)

"All" blocks every restriction; for example for guideline rating TV-PG, "All" will block programs with V=Violence, S=Sex Scenes, L=Bad Language, and D=Suggestive Dialog from appearing.

No Rating means that the program does not contain any rating information.

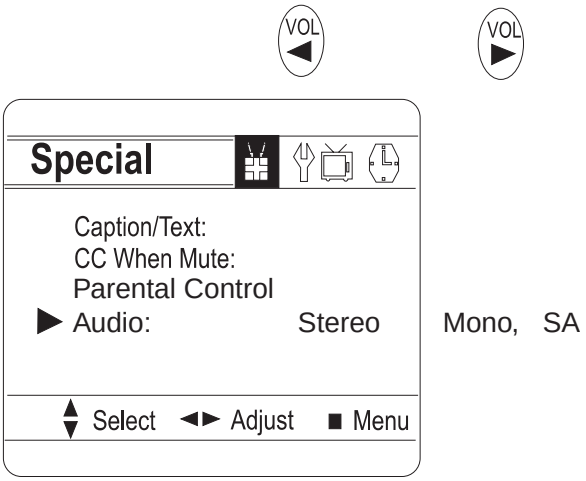
Mini glossary

TV PARENTAL GUIDELINE RATING SYSTEM

TV-G	General Audience	Considered suitable for all audiences; children may watch unattended.
TV-PG	Parental Guidance Suggested	Unsuitable for younger children, may contain Suggestive Dialog, Bad Language, Sex, and Violence Scenes.
TV-14	Parents Strongly Cautioned	Unsuitable for children under 14, may contain Strong Dialog, Bad Language, Sex, and Violence Scenes.
TV-MA	Mature Audience Only	Adults only, may contain Strong Dialog, Bad Language, Sex, and Violence Scenes.
CHILDREN'S CLASSIFICATIONS		
TV-Y	Children	Considered suitable for all children under 7 years old.
TV-Y7	Children 7 and over	Considered suitable for children over 7, may contain Fantasy Violence Scenes.

Audio Menu

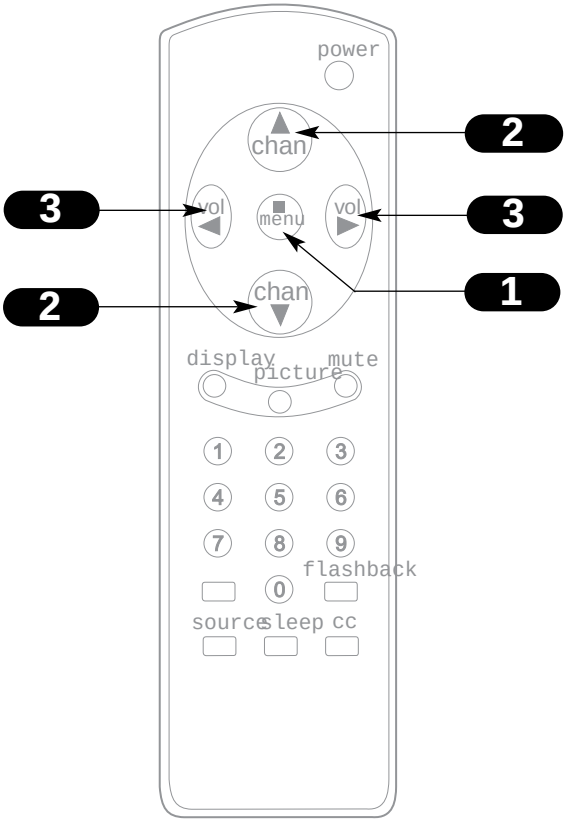
Adjusts the sound on your Entertainment Machine™



1 Press MENU repeatedly to place the Special (features) menu on the TV screen.

2 Use the Up or Down select arrow to highlight the Audio option.

3 Use the Left or Right adjust arrow to choose: Stereo, Mono, or SAP.



Audio options will only appear on TVs equipped with stereo. See page 5 for the features provided on the model of TV you have.

Mini glossary

STEREO	Stereo sound is heard and divided between the left and right speakers.
MONO	Monaural sound is heard from all speakers.
SAP	Second Audio sound is heard, if available on program.

Glossary

Description of the terms used in this guide

A/V CABLES Use to connect Audio/Video equipment such as a VCR, usually to achieve higher quality picture and sound.

A/V DEVICE Any device that produces video or sound (VCR, DVD, cable box, or television).

ACCESSORIES Optional equipment usable with your Entertainment machine™.

ADD This feature lets you add new channels to the channel scan list that you'll scroll through when using your remote.

ANTENNA The physical receiver of television signals sent over the air. A large metal piece of equipment does not always have to be visible for your home to be using an antenna.

AUDIO Sound portion of a program.

CAPTION/TEXT A form of subtitling that writes out the dialog for your program.

DELETE This function lets you remove channels that you don't want to watch from the channel scan list you'll scroll through.

DVD Digital video disk player.

ICON A small picture on your screen that representing a feature or menu.

INPUT Refers to the jack that receives a signal into the TV, VCR or other A/V device.

JACK A connector on the back of a TV, VCR, or any other A/V device. This includes the RF jack that is threaded with a place for a small wire in the center, and the Audio/Video jacks that have a smaller opening and are color-coded.

MENU On-screen aid provided for you to use to control and program your TV's features.

MONO SOUND Mono (monaural) sound is one channel of sound. On more than one speaker, all the speakers play the same audio.

OUTPUT Refers to the jack that sends a signal out of a VCR, DVD, or other A/V device.

RF CABLE The wire that comes from an off-air antenna or cable service provider. Each end looks like a hex shaped nut with a wire sticking through the middle, and it screws onto the threaded jack on the back of your TV.

SIGNAL Picture and sound traveling through cable, or on the air, to your television screen.

SOURCE The term for the equipment providing picture and sound signals to your Entertainment Machine™. VCR, DVD players, or Cable Boxes are examples of sources.

SPECIAL Features that are not ordinarily included in a TV - - enhancing your entertainment experience.

STEREO SOUND Stereo (Stereophonic) sound refers to audio that's divided into right and left sides.

TUNER Any device that picks up broadcast signals and turns them into picture and sound.

VCR Video cassette recorder. Used for recording and playback of videotape cassettes.

VIDEO Picture portion of a program.

Caring for your Entertainment Machine™

Early malfunctions can be prevented. Careful and regular cleaning can extend the amount of time you will have with your new Entertainment Machine™. Be sure to turn the power off and pull out the plug before you begin any cleaning.

Screen Cleaning

1. Here's a great way to keep the dust off your screen for a while. Wet a soft cloth in a mixture of lukewarm water and a little fabric softener or dish washing detergent. Wring the cloth until it's almost dry, and then use it to wipe the screen.

2. Make sure the excess water is off the screen, and then let it air-dry before you turn on your Entertainment Machine™.

Cabinet Cleaning

1. Use a soft cloth with a mild soap solution to wipe the cabinet.

2. Rinse the cloth and wipe the cabinet again.

3. Let the cabinet air-dry before turning the Entertainment Machine™ on.

Extended Absence

If you leave your Entertainment Machine™ dormant for a long time (such as a vacation), it's a good idea to unplug the power to protect against possible damage from lightning or power surges. If you use an off-air antenna, you may also want to disconnect it from the back of your TV before leaving.

If you unplug your Zenith Entertainment Machine™, you may have to reset the clock using the Clock Set menu described earlier. See page 19.

Trouble Shooting

Some quick and easy tips to fixing problems yourself

SYMPTOMS	SOLUTIONS
Snowy picture and poor sound.	• Check your antenna connection or location.
Multiple images or 'ghost shadows.'	• Check your antenna direction and/or location. • Make sure the wire from your antenna is properly connected.
Interference: Sharp lines across the screen and poor sound.	*The following may cause image problems or distortion Electrical appliances, powerful lights, cars, trucks; computers or portable phones; medical equipment* • If possible increase the distance between your Entertainment Machine™ and the offending appliance. Or shut one of them off.
Normal picture but no sound.	• Check volume level. • Make sure the TV is not Muted. • Try another channel. The problem may be the broadcast, not your Entertainment Machine™. • Are the Audio A/V cables properly installed?
No picture and poor sound.	• Make sure output channels on all A/V equipment are on the same channel (3 or 4). • Check that all connections are tight.
No picture and no sound.	• Is the AC power plugged in? • Check that your AC power outlet works. (Test it by plugging in something else or try another plug.) • Make sure your brightness and audio controls are set properly. • Try another channel. The problem may be with the broadcast.
No color, but the sound is O.K.	• Check the color control in the Video menu. Black and white broadcast? • Try another channel. The problem may be with the broadcast.
Picture has a big black box on it, but the sound is O.K. Picture has two horizontal black bars, one on top and one on the bottom.	• Your program is in letterbox. This means that the shape of your TV is a square, but the program is a rectangle. Think of the bars as empty space the program doesn't fill; not picture that's blocked out. Because this format is a direct representation of film as you see it in the movies, you are actually seeing MORE of the program when you see those bars.
Remote control doesn't work.	• Make sure the batteries are fresh and installed properly; see remote battery compartment.
Menu options can't be changed or selected.	• Try unplugging your Entertainment Machine™ for five minutes, then plug it back in. (Don't forget to reset the clock.)
No picture or sound when any non-cable source is selected.	• Check to see if the source equipment has been turned on. • Make sure that the connections are secure on the back of your TV and on the source equipment.
Weak or no Stereo Sound when using a stereo VCR.	• Check to see if all the connections are secure. • Is it a monaural program, Mono TV? Are you using Audio/Video jacks as the picture source?
No sound, words appear on screen.	• Captions turned on? • Caption When Mute selected? Turn off in Special menu, then press MUTE to restore sound.

Recommended Video Accessories

INDOOR AMPLIFIED ANTENNA

Receive Local programming NOT available on your Satellite system!!! Perfect backup antenna for cable outages. Enhanced quality picture and stereo sound in weak signal areas.
• Amplified VHF/UHF/FM Antenna includes 4 feet of 75 ohm cable for easy hookup.

ATS 775 **ONLY $34.95** PLUS **$6.95** SHIPPING & HANDLING

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Set up your game room or spare room in style!! Sturdy black wall mounts keep the TV off your furniture and in easy view. All mounts have 90 degree and 10 degree tilt angles.
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ZENITH 5 FUNCTION REMOTE

Broken or lost remote? Need a second remote or more functions? Order direct from Zenith!!
• Operates TV, VCR, CD, DVD, DIVX, DSS & Cable Box
• Operates PIP and Most Screen Menus
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Orders 1 year or more after product purchase may receive upgraded models.
Other Remotes with 3, 4, 5 & 7 Functions Available Upon Request

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Your Zenith Direct-View TV Warranty

Direct-View Color TV Welcome to the Zenith family! We believe that you will be pleased with your new Zenith Entertainment Machine™. Please read this warranty carefully, it is a "LIMITED WARRANTY" as defined under Federal Law. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state within the U.S.A.

ZENITH RESPONSIBILITY

Service Labor During a period of 90 days from effective warranty date, Zenith will provide service labor by a Zenith authorized service center when needed, as determined by the Zenith service center, as a result of manufacturing defects.

Parts New or remanufactured replacements for factory-defective parts will be supplied by a Zenith authorized service center for one year from effective warranty date (color picture tube — two years). Such replacement parts are warranted for the remaining portion of the original warranty period.

Home Service Warranty service for 21" diagonal (U.S.A.) or larger screen size models is provided in the home in most cases. (Some repairs may require the unit to be taken by the servicer to the repair facility and returned, at no additional charge.)

Not Covered This warranty covers manufacturing defects and does not cover installation, adjustment of customer controls in the home, installation or repair of home antenna systems, cable converters or cable company-supplied equipment; it also does not cover damage due to misuse, abuse, negligence, acts of God or other causes beyond the control of Zenith. Any alteration of the product after manufacture voids this warranty in its entirety.

THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND ZENITH SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INDIRECT, OR INCIDENTAL DAMAGES OF ANY KIND, INCLUDING LOST REVENUES OR PROFITS IN CONNECTION WITH THIS PRODUCT. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.

OWNER'S RESPONSIBILITY

Effective Warranty Date Warranty begins on the date of original consumer purchase. For your convenience, keep the dealer's dated bill of sale or delivery ticket as evidence of the purchase date.

Operating Guide Read your Operating Guide carefully so that you will understand the operation of your set and how to adjust the customer controls.

Carry-In Service Models under 21" diagonal (U.S.A.) screen size must be taken to a Zenith authorized service center for warranty service and must be picked up by the owner.

Antenna Reception problems caused by inadequate home antenna or faulty antenna connections are the owner's responsibility.

Important Product Registration—Please fill out and mail your Product Registration Card. It is imperative that Zenith know how to reach you promptly if we should discover a safety problem that could affect you.

Warranty Service **For warranty service information, contact any Zenith authorized service center.** Parts and service labor that are Zenith's responsibility (see above) will be provided without charge. Other service is at the owner's expense. If you have any problem in obtaining satisfactory warranty service, call or write the Zenith Response Center. You must provide the model number, serial number and date of purchase or date of original installation. Before you ask for warranty service, read "Maintenance And Troubleshooting" in your operating guide. You might avoid a service call.

ZENITH ELECTRONICS CORPORATION
Zenith Response Center
201 James Record Rd., Building 3
Huntsville, AL 35824
Telephone (256) 772-1515
Mon-Fri, 7:00 a.m.-8:00 p.m. CST
Sat, 8:00 a.m.- 5:00 p.m. CST
www.zenith.com

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Additional Zenith Picture Tube Protection Plan Available

Zenith offers you the opportunity to obtain additional long-term protection against failure of the picture tube in your new television. Our Picture Tube Protection Plan enables you to avoid any unexpected picture tube repair expenses and keep your television in top condition. It guarantees you a genuine Zenith replacement picture tube and service from a Zenith authorized service center.

Be sure to send in the Product Registration Card. We will send you an application for the Protection Plan near the expiration of the two-year manufacturer's warranty on the picture tube. For additional information call (256) 774-4088.

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